



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0245/S-96, REVISION 10**

400 Seventh Street, S.W.
Washington, D.C. 20590

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - Elekta AB Models 43047, 43685 and 1000029.
2. Source Description - Cylindrical double encapsulations made of Type 303 stainless steel (Model 43047) or Type 316L stainless steel (Models 43685 and 1000029) and seal welded. Approximate outer dimensions are either 7.98 mm (0.314 in.) or 7.99 mm (0.315 in.) in diameter and 27.2 mm (1.07 in.) in length. Construction shall be in accordance with attached Elekta Instrument Drawing Nos. 43047 (Model 43047), 43685 (Model 43685), or 1000029 (Model 1000029).
3. Radioactive Contents - No more than 2.22 TBq (60.0 Ci) of Cobalt-60 in the form of metal pellets, a solid rod, or powder.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on May 31, 2011. On July 31, 2006, this certificate supersedes all previous revisions of USA/0245/S-96.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

CERTIFICATE USA/0245/S-96, REVISION 10


This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the March 31, 2006 petition by MDS Nordion, Ottawa, Ontario and in consideration of other information on file in this Office.

Certified By:



May 04 2006

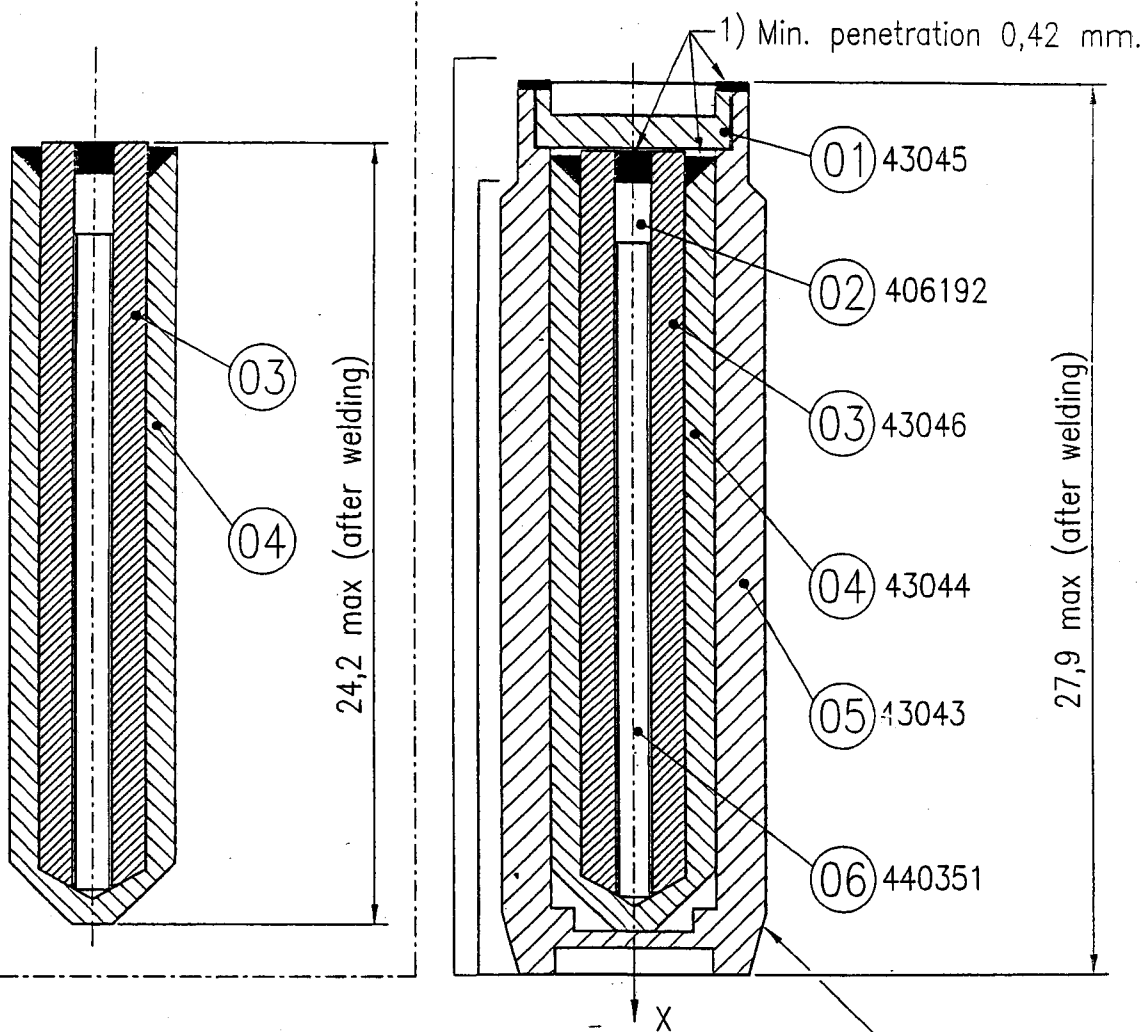
(DATE)

 Robert A. McGuire
Associate Administrator for Hazardous Materials Safety

Revision 10 - Issued to add new model.

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| No. | Revision | Date | Appd |
|-----|------------------------------|------|------|
| 1 | Utseende justerat | 8804 | RL |
| 2 | Not tillk; se ÅM C0192 | 9436 | JT |
| 3 | Not tolkas tillk. ÅM C0480 | 9547 | KES |
| 4 | Pos 2 ritn. tillk. ÅM C1321 | 9745 | BTHO |
| 5 | See change order C1836 | 9930 | BCN |
| 6 | DWG. numbers added. ÅM C2186 | 9951 | RL |



Kapseln tolkas med tolerans $\varnothing 8H7\pm 0$ efter svetsning för att passa i bussning vid montering.

The capsule to be checked after welding with a tool having hole tolerance $\varnothing 8H7\pm 0$.

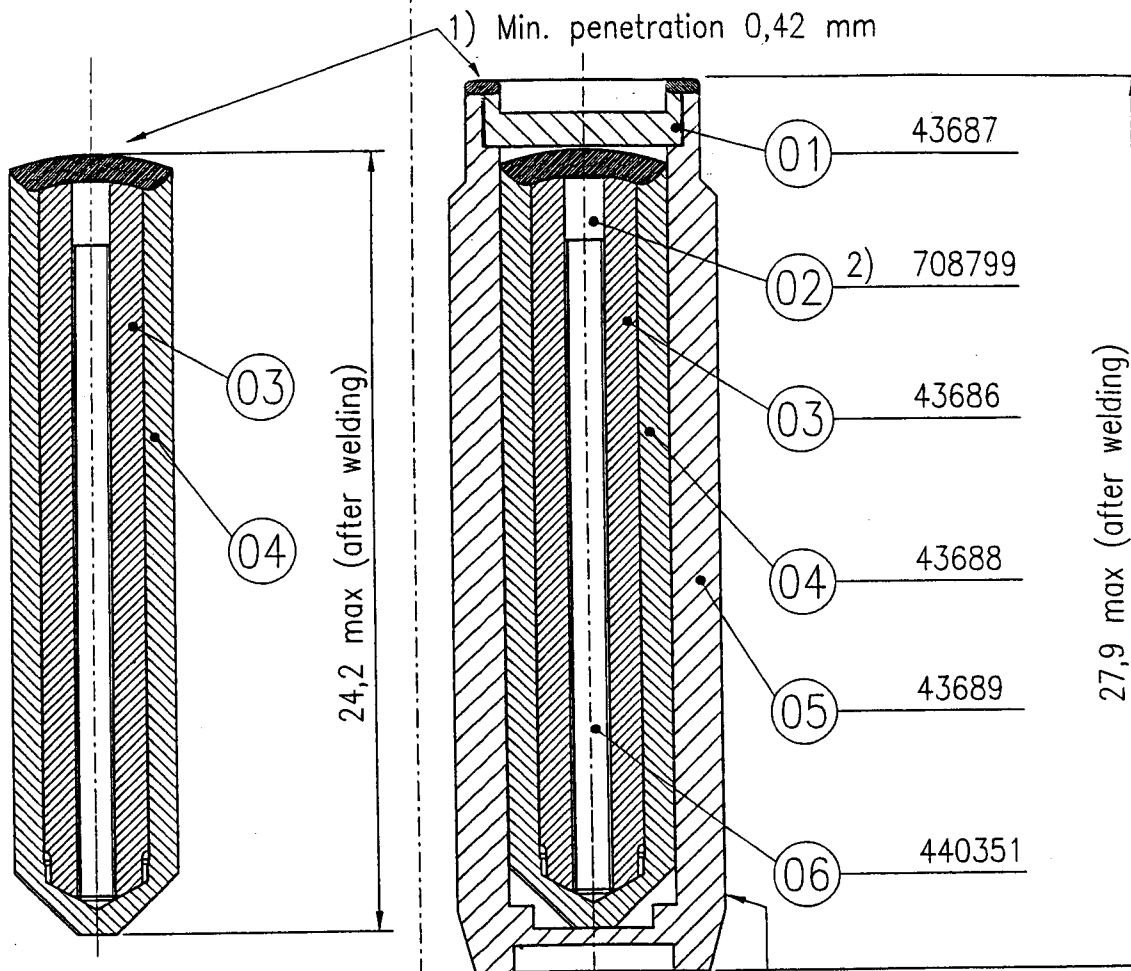
1) Gastät svets utan tillsatser/ Gas tight weld without additives

Not/ Note: Teknisk specifikation/Technical Specification Art.No. 9-01863 0.010

| Item | Qty | Description | Material | Dimension, Article no. | Weight kg |
|---|-------|---|--------------------|------------------------|-------------|
| Conditions where other not is specified | | Welding | Radius Sharp edges | Tolerances | |
| Date | Drawn | Checked | Scale | Ref. | |
| 84-04-17 | KS Rb | BCN | 5:1 | 908786 | |
| ELEKTA INSTRUMENT | | PREPARATKAPSEL SMST CAPSULE ASSEMBLY | | | 43047 |
| | | | | | Sheet Cont. |

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| No. | Revision | Date | Appd |
|-----|----------------------------|------|------|
| 1 | Utseende justerat | 8804 | RL |
| 2 | Not tillk; SE ÅM C0192 | 9436 | JT |
| 3 | Not tolkas tillk. ÅM C0480 | 9547 | KES |
| 4 | See change order C1836 | 9938 | BCN |
| 5 | See change order C2040 | 9947 | RL |





Kapseln tolkas med tolerans $\varnothing 8H7 \pm 0$ efter svetsning för att passa i bussning vid montering.
The capsule to be checked after welding with a tool having hole tolerance $\varnothing 8H7 \pm 0$.

- 1) Gastät svets utan tillsatser/ Gas tight weld without additives
- 2) Pluglängd efter behov/ Plug length as required

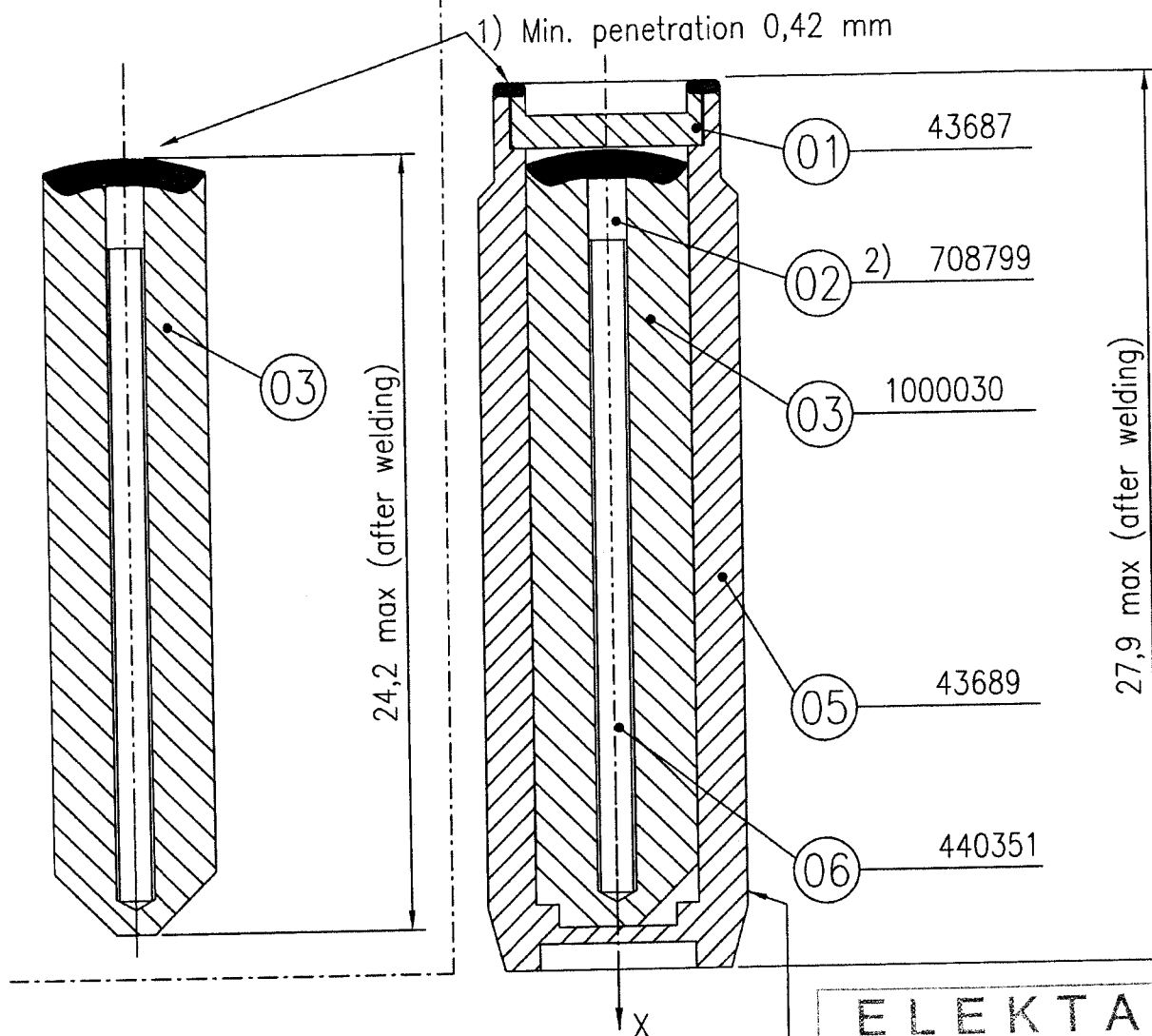
Not/ Note: Teknisk specifikation/Technical Specification Art.No. 9-01863

0.010

| Item | Qty | Description | Material | Dimension, Article no. | Weight kg | | |
|--|-------|-------------|--|------------------------|--------------|-------|-------|
| Conditions where other not is specified Surface | | | Welding | Radius Sharp edges | Tolerances | | |
| Date | Drawn | Checked |   | Scale | Ref. | | |
| 84-04-17 | KS/RL | RL | | 5:1 | 908788 | | |
| ELEKTA INSTRUMENT | | | PREPARATKAPSEL SMST CAPSULE ASSEMBLY | | | Sheet | Cont. |
| | | | | | | 43685 | |

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| No. | Revision | Date | Appd |
|-----|-------------|------|------|
| 02 | See ECO-231 | 0543 | AB |



Kapseln tolkas med tolerans $\varnothing 8H7\pm 0$ efter svetsning för att passa i bussning vid montering.
The capsule to be checked after welding with a tool having hole tolerance $\varnothing 8H7\pm 0$.

ELEKTA
200543

Released

1) Gastät svets utan tillsatser/ Gas tight weld without additives

2) Pluglängd efter behov/ Plug length as required

Not/ Note: Teknisk specifikation/Technical Specification Art.No. 9-01863

0.010

| Item | Qty | Description | Material | Dimension, Article no. | Weight kg |
|---|------------|------------------|--------------------|------------------------|-----------|
| Conditions where other not is specified Surface | | Welding | Radius Sharp edges | Tolerances | |
| Date 050701 | Drawn OLNi | Checked | Scale | Ref. 1000028 | |
| ELEKTA INSTRUMENT | | CAPSULE ASSEMBLY | | | 1000029 |